

## TEST REPORT

**EN 60950-1:2006+A11:2009+A1:2010**

**Safety of information technology equipment**

### Part 1-General requirements

Report reference No .....	RSZ110907002-03
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Approved by (+ signature) .....	Safety Engineer: Manson Chu <i>Manson Chu</i>
Date of issue .....	2011-10-20
Testing laboratory .....	Bay Area Compliance Laboratories Corp. (Shenzhen)
Address .....	6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong, P.R.China
Testing location .....	As above
Applicant1 .....	Xingtel Xiamen Group Co., Ltd
Address .....	Xingtel Building,Chuangxin Road, Torch Hi-Tech Industrial District, Xiamen 361006,PR, China
Applicant2 .....	---
Address .....	---
Standard .....	EN 60950-1:2006+A11:2009+A1:2010
Test sample(s) received.....	2011-09-15
Test in period.....	2011-09-15 To 2011-10-20
Procedure deviation .....	N.A.
Non-standard test method .....	N.A.
This test report is for the customer shown above and their specific product only. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen). This report <b>must</b> not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.	
Type of test object .....	DECT PHONE
Trademark .....	Xingtel
Model/type reference .....	CL-3631
Manufacturer.....	Xingtel Xiamen Group Co., Ltd Xingtel Building,Chuangxin Road, Torch Hi-Tech Industrial District, Xiamen 361006,PR, China
Rating .....	Base: specified adapter output: 7.5V $\overline{\text{---}}$ 500mA Handset: specified adapter output: 2.4V $\overline{\text{---}}$ 600mA

Copy of marking plate:

DECT PHONE

**Model:** CL-3631

**Rating:** Base: specified adapter output: 7.5V $\overline{\text{---}}$ 500mA  
Handset: specified adapter output: 2.4V $\overline{\text{---}}$  600mA



Xingtel Xiamen Group Co., Ltd.  
Made in China

Test item particulars.....:See General Product Information	
Equipment mobility .....	Base: Movable Handset: Hand-held
Connection to the mains.....	No direct connection to mains(By an approved adapter connected to mains)
Operating condition .....	Continuous
Mains supply tolerance (%) .....	N/A
Class of equipment .....	For base: TNV-3 circuit For handset: Class III equipment (supplied by specific adaptor with SELV output)
Laser of Classification .....	Exempt Group
Max. Specified ambient temperature(°C) .....	25°C
Mass of equipment (kg).....	Approx 0.115kg for handset(without batteries) Approx 0.618kg for base (without adapter and accessories);
Pollution degree .....	Pollution degree 2
Overvoltage category.....	II
Operating Height.....	<2000 m (above Mean Sea Level)
IP protection class .....	IP20

**Possible test case verdicts:**

- test case does not apply to the test object.....:N(.A.)
- test object does meet the requirement.....P(ass)
- test object does not meet the requirement.....F(ail)

**General remarks:**

"(see remark #)" refers to a remark appended to the report.

(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

The test results presented in this report relate only to the object tested.

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**General product information:**

**1) Description of the product**

1.1 The product tested with model name CL-3631 is a DECT PHONE, base and handset supplied by an approval power adapter. handset also supplied by built 2\*AAA 600mAh Ni-MH rechargeable batteries in handset, and the batteries will be charged by an approval power adapter.

1.2 for indoor use only

1.3 The EUT consists of

- Base RJ11 connected to TNV-3 circuit.
- handset as wireless phone regarded as SELV circuit.
- Approved power adapter:  
Input: 100-240V~ 50-60Hz 0.2A max  
Output: 7.5V---0.5A

Certification see appended table 1.5.1

**2) Factory information:**

**Factory:** Xingtel Xiamen Group Co., Ltd.

**Address:** Xingtel Building, Chuangxin Road, Torch Hi-Tech Industrial District, Xiamen 361006, PR, China

**3) Manufacturer's name or trade-mark of identification mark:**

Manufacturer's name: Xingtel Xiamen Group Co., Ltd.

Trade-mark: Xingtel

EN 60950-1:2006+A11:2009+A1:2010			
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		P
1.5	Components		P
1.5.1	General		P
	Comply with IEC60950-1 or relevant component standard	Components that were found to affect safety aspects comply with the requirements of this standard or within the safety aspects of the relevant IEC component standards. (see appended table 1.5.1)	P
1.5.2	Evaluation and testing of components	<p>Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this Standard.</p> <p>Components not certified are used in accordance with their ratings and they comply with IEC60950-1 and the relevant component Standard.</p> <p>Components, for which no relevant IEC Standard exist, have been tested under the condition occurring in the equipment, using applicable parts of IEC60950-1.</p>	P
1.5.3	Thermal controls	No thermal controls	N
1.5.4	Transformers	Evaluated in approved adapter	N
1.5.5	Interconnecting cables	Comply with relevant requirements of this standard	P
1.5.6	Capacitors bridging insulation		N
1.5.7	Resistors bridging insulation		N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	Not used.	N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	Not used.	N
1.5.8	Components in equipment for IT power systems	Not intend for IT power distribution systems.	N
1.5.9	Surge suppressors		P
1.5.9.1	General		P
1.5.9.2	Protection of VDRs	VDE approval varesistor used.	P
1.5.9.3	Bridging of functional insulation by a VDR		P

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Clause	Requirement + Test	Result - Remark	Verdict
1.5.9.4	Bridging of basic insulation by a VDR		N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N
1.6	Power interface		P
1.6.1	AC power distribution systems	The equipment is supply by specific adaptor	N
1.6.2	Input current	(see appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	The rated voltage of hand-held equipment not exceed 250V.	P
1.6.4	Neutral conductor		N
1.7	Marking and instructions		P
1.7.1	Power rating and identification markings		P
1.7.1.1	Power rating marking		P
	Multiple mains supply connections.....		P
	Rated voltage(s) or voltage range(s) (V) .....	Base: 7.5V Handset: 2.4V	P
	Symbol for nature of supply, for d.c. only.....	---	P
	Rated frequency or rated frequency range (Hz) ...		N
	Rated current (mA or A) .....	Base: 500mA Handset: 600mA	P
1.7.1.2	Identification markings		P
	Manufacturer's name or trade-mark or identification mark .....	Xingtel	P
	Model identification or type reference .....	CL-3631	P
	Symbol for Class II equipment only .....	Class III and TNV equipment	N
	Other markings and symbols .....	CE	P
1.7.2	Safety instructions and markin	Operating/safety instructions made available to the user.	P
1.7.2.1	General		N
1.7.2.2	Disconnect devices	Class III and TNV equipment	N
	-for permanently connected equipment, a readily accessible disconnect device shall be incorporated in the building installation wiring		N
	-for pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible		N
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems		N

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Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.5	Operator access with a tool		N
1.2.7.6	Ozone	The equipment does not produce ozone.	N
1.7.3	Short duty cycles	Continuous operation.	N
1.7.4	Supply voltage adjustment .....	No voltage selector	N
	Methods and means of adjustment; reference to installation instructions .....		N
1.7.5	Power outlets on the equipment .....	No standard power outlet.	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) .....		N
1.7.7	Wiring terminals	See below.	N
1.7.7.1	Protective earthing and bonding terminals .....		N
1.7.7.2	Terminals for a.c. mains supply conductors		N
1.7.7.3	Terminals for d.c. mains supply conductors	The equipment not intended to be connected to DC mains	N
1.7.8	Controls and indicators	LED indicators provided, but do not affect safety.	P
1.7.8.1	Identification, location and marking .....	Such marking do not affect safety.	N
1.7.8.2	Colours .....	Safety is not involved.	N
1.7.8.3	Symbols according to IEC 60417 .....		N
1.7.8.4	Markings using figures .....	No such markings	N
1.7.9	Isolation of multiple power sources .....	Single DC source input.	N
1.7.10	Thermostats and other regulating devices .....	No thermostats or other regulating devices	N
1.7.11	Durability	Rubbed with a cloth soaked with water for 15s then again for 15s with cloth soaked with petroleum spirit, after this test, the marking on the label did not fade. There are no curling nor lifting of the label edge.	P
1.7.12	Removable parts	No marking located on a removable part.	P

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Clause	Requirement + Test	Result - Remark	Verdict
1.7.13	Replaceable batteries .....	Built-in 2*AAA 600mAh Ni-MH rechargeable batteries. Relevant warning marking is both in the operation and service manual. The require warning marking is both in operation and service manuals, such as:  CAUTION  RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE  DISPOSE OF USED BATTERY ACCORDING TO THE INSTRUCTION or equivalent	P
	Language(s) .....	English	—
1.7.14	Equipment for restricted access locations .....		N

2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards		P
2.1.1	Protection in operator access areas		P
2.1.1.1	Access to energized parts		P
	Test by inspection .....		P
	Test with test finger (Figure 2A) .....		P
	Test with test pin (Figure 2B) .....		P
	Test with test probe (Figure 2C) .....		P
2.1.1.2	Battery compartments		P
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area	N
	Working voltage ( $V_{peak}$ or $V_{rms}$ ); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards .....	No energy hazards present	N
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in equipment		N
	Measured voltage (V); time-constant (s) .....		—
2.1.1.8	Energy hazards – d.c. mains supply	Not supplied by DC mains supply	N
	a) Capacitor connected to the d.c. mains supply ..		N
	b) Internal battery connected to the d.c. mains supply .....		N
2.1.1.9	Audio amplifiers .....	No audio amplifiers	N

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Clause	Requirement + Test	Result - Remark	Verdict
2.1.2	Protection in service access areas	No bare parts operating at HAZARDOUS VOLTAGES in a service access area.	P
2.1.3	Protection in restricted access locations	Equipment not intended for installation in restricted access locations	N
2.2	SELV circuits		P
2.2.1	General requirements	For handset equipment supplied by SELV source.	P
2.2.2	Voltages under normal conditions (V) .....	Not exceed SELV limit	P
2.2.3	Voltages under fault conditions (V) .....	Not exceed SELV limit	P
2.2.4	Connection of SELV circuits to other circuits .....	SELV separated from Primary by Reinforced insulation. Evaluated as part of Power Supply Certification.	P
2.3	TNV circuits		P
2.3.1	Limits	Adaptor output and all internal circuits of this products are considered as TNV-3 circuit for it is connected to base and has not insulation to PSTN.	P
	Type of TNV circuits .....	TNV-3 circuit	—
2.3.2	Separation from other circuits and from accessible parts	TNV-3 circuits are separated from unearthed operator accessible conductive parts by at least basic insulation.	P
2.3.2.1	General requirements		P
2.3.2.2	Protection by basic insulation		P
2.3.2.3	Protection by earthing		N
2.3.2.4	Protection by other constructions .....		N
2.3.3	Separation from hazardous voltages		P
	Insulation employed .....	Double insulation,by an approved AC/DC adapter	—
2.3.4	Connection of TNV circuits to other circuits		P
	Insulation employed .....	Double insulation,by an approved AC/DC adapter	—
2.3.5	Test for operating voltages generated externally		N
2.4	Limited current circuits	<i>No limited current circuits</i>	N
2.4.1	General requirements	No such circuits	N
2.4.2	Limit values		N
	Frequency (Hz).....		—



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Clause	Requirement + Test	Result - Remark	Verdict
	Measured current (mA) .....		—
	Measured voltage (V) .....		—
	Measured circuit capacitance (nF or $\mu$ F) .....		—
2.4.3	Connection of limited current circuits to other circuits		N

2.5	Limited power sources		P
	a) Inherently limited output		N
	b) Impedance limited output		N
	c) Regulating network limited output under normal operating and single fault condition	2*AAA 2.4Vdc 600mAh fully charged batteries was subjected to test, which output complied with LPS limits.	P
	d) Overcurrent protective device limited output		N
	Max. output voltage (V), max. output current (A), max. apparent power (VA) .....	Normal condition: Uoc=7.58V<30V; Isc=4.2A<8A; VAmx=12.5VA<100VA	—
	Current rating of overcurrent protective device (A) ..	No protective device	—
	Use of integrated circuit (IC) current limiters		N

2.6	Provisions for earthing and bonding	<i>No protective earthing and bonding.</i>	N
2.6.1	Protective earthing		N
2.6.2	Functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General		N
2.6.3.2	Size of protective earthing conductors		N
	Rated current (A), cross-sectional area ( $\text{mm}^2$ ), AWG .....		—
2.6.3.3	Size of protective bonding conductors		N
	Rated current (A), cross-sectional area ( $\text{mm}^2$ ), AWG .....		—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance ( $\Omega$ ), voltage drop (V), test current (A), duration (min) .....		N
2.6.3.5	Colour of insulation.....		N
2.6.4	Terminals		N
2.6.4.1	General		N
2.6.4.2	Protective earthing and bonding terminals		N

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Clause	Requirement + Test	Result - Remark	Verdict
	Rated current (A), type, nominal thread diameter (mm) .....		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N
2.6.5	Integrity of protective earthing		N
2.6.5.1	Interconnection of equipment		N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N
2.6.5.3	Disconnection of protective earth		N
2.6.5.4	Parts that can be removed by an operator		N
2.6.5.5	Parts removed during servicing		N
2.6.5.6	Corrosion resistance		N
2.6.5.7	Screws for protective bonding		N
2.6.5.8	Reliance on telecommunication network or cable distribution system		N
2.7	Overcurrent and earth fault protection in primary circuits		N
2.7.1	Basic requirements	Class III equipment for handset	N
	Instructions when protection relies on building installation		N
2.7.2	Faults not simulated in 5.3.7		N
2.7.3	Short-circuit backup protection		N
2.7.4	Number and location of protective devices .....		N
2.7.5	Protection by several devices		N
2.7.6	Warning to service personnel.....		N
2.8	Safety interlocks	<i>No safety interlocks</i>	N
2.8.1	General principles		N
2.8.2	Protection requirements		N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
	Protection against extreme hazard		
2.8.5	Moving parts		N
2.8.6	Overriding		N
2.8.7	Switches, relays and their related circuits		N
2.8.7.1	Separation distances for contact gaps and their related circuits (mm) .....		N
2.8.7.2	Overload test		N
2.8.7.3	Endurance test		N

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Clause	Requirement + Test	Result - Remark	Verdict

2.8.7.4	Electric strength test		N
2.8.8	Mechanical actuators		N

2.9	Electrical insulation		P
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic material not used	P
2.9.2	Humidity conditioning		P
	Relative humidity (%), temperature (°C) .....	93%,25°C,48h	—
2.9.3	Grade of insulation	Basic insulation	P
2.9.4	Separation from hazardous voltages	Have evaluated in approved adapter.	P
	Method(s) used .....	By reinforced insulation	—

2.10	Clearances, creepage distances and distances through insulation For base TNV-3 circuit		P
2.10.1	General	See 2.10.3,2.10.4,2.10.5	P
2.10.1.1	Frequency .....		P
2.10.1.2	Pollution degrees .....	Pollution degree 2	P
2.10.1.3	Reduced values for functional insulation		N
2.10.1.4	Intervening unconnected conductive parts		N
2.10.1.5	Insulation with varying dimensions		N
2.10.1.6	Special separation requirements	See clause 6.1.2 & 6.2.1 requirement.	P
2.10.1.7	Insulation in circuits generating starting pulses		N
2.10.2	Determination of working voltage	120V d.c for TNV-3 circuit	P
2.10.2.1	General		N
2.10.2.2	RMS working voltage		N
2.10.2.3	Peak working voltage		N
2.10.3	Clearances		P
2.10.3.1	General		P
2.10.3.2	Mains transient voltages	1500V peak for TNV-3 circuit	P
	a) AC mains supply .....		N
	b) Earthed d.c. mains supplies .....		N
	c) Unearthed d.c. mains supplies .....		N
	d) Battery operation .....		N
2.10.3.3	Clearances in primary circuits		N

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.3.4	Clearances in secondary circuits	Basic insulation employed between TNV-3 circuit and accessible parts. Functional insulation complied with 5.3.4 c)	P
2.10.3.5	Clearances in circuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply .....		N
2.10.3.7	Transients from d.c. mains supply .....		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems .....	1500V peak	P
2.10.3.9	Measurement of transient voltage levels		N
	a) Transients from a mains supply		N
	For an a.c. mains supply .....		N
	For a d.c. mains supply .....		N
	b) Transients from a telecommunication network :		N
2.10.4	Creepage distances	Complied with table 2L.	P
2.10.4.1	General		P
2.10.4.2	Material group and comparative tracking index		P
	CTI tests .....	Material group IIIb; $100 \leq CTI < 175$ .	—
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 and 2.10.4)	P
2.10.5	Solid insulation	Only basic insulation employed between TNV-3 circuit and accessible parts	N
2.10.5.1	General		N
2.10.5.2	Distances through insulation		N
2.10.5.3	Insulating compound as solid insulation		N
2.10.5.4	Semiconductor devices		N
2.10.5.5	Cemented joints		N
2.10.5.6	Thin sheet material – General		N
2.10.5.7	Separable thin sheet material		N
	Number of layers (pcs) .....		—
2.10.5.8	Non-separable thin sheet material		N
2.10.5.9	Thin sheet material – standard test procedure		N
	Electric strength test		—
2.10.5.10	Thin sheet material – alternative test procedure		N
	Electric strength test		—
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wire in wound components		N
	Working voltage .....		N

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Clause	Requirement + Test	Result - Remark	Verdict
	a) Basic insulation not under stress .....		N
	b) Basic, supplementary, reinforced insulation .....		N
	c) Compliance with Annex U .....		N
	Two wires in contact inside wound component; angle between 45° and 90° .....		N
2.10.5.13	Wire with solvent-based enamel in wound components		N
	Electric strength test		—
	Routine test		N
2.10.5.14	Additional insulation in wound components		N
	Working voltage .....		N
	- Basic insulation not under stress .....		N
	- Supplementary, reinforced insulation .....		N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards		N
2.10.6.2	Coated printed boards		N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N
2.10.6.4	Insulation between conductors on different layers of a printed board		N
	Distance through insulation		N
	Number of insulation layers (pcs).....		N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components		N
2.10.8.1	Sample preparation and preliminary inspection		N
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test		N
2.10.8.4	Abrasion resistance test		N
2.10.9	Thermal cycling		N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N
2.10.11	Tests for semiconductor devices and cemented joints		N
2.10.12	Enclosed and sealed parts		N
3	WIRING, CONNECTIONS AND SUPPLY		P
3.1	General		P
3.1.1	Current rating and overcurrent protection	All the interconnecting cable are adequate for the current they are intended to carry.	P

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Clause	Requirement + Test	Result - Remark	Verdict
3.1.2	Protection against mechanical damage	Wireways are smooth and free from sharp edges	P
3.1.3	Securing of internal wiring	The wires are positioned in such a manner that prevents excessive strain, loosening of terminal connections and damage of conductor insulation.	P
3.1.4	Insulation of conductors		P
3.1.5	Beads and ceramic insulators		N
3.1.6	Screws for electrical contact pressure	No screws for electrical contact pressure	N
3.1.7	Insulating materials in electrical connections	No insulating materials in electrical connections	N
3.1.8	Self-tapping and spaced thread screws	No self-tapping and spaced thread screws for the connection of current-carrying	N
3.1.9	Termination of conductors		N
	10 N pull test		N
3.1.10	Sleeving on wiring	No sleeving	N
3.2	Connection to a mains supply		N
3.2.1	Means of connection		N
3.2.1.1	Connection to an a.c. mains supply		N
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment		N
	Number of conductors, diameter of cable and conduits (mm) .....		—
3.2.4	Appliance inlets		N
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords		N
	Type .....		—
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG .....		—
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief		N
	Mass of equipment (kg), pull (N) .....		—
	Longitudinal displacement (mm) .....		—
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards		N

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Clause	Requirement + Test	Result - Remark	Verdict
	Diameter or minor dimension D (mm); test mass (g) .....		—
	Radius of curvature of cord (mm) .....		—
3.2.9	Supply wiring space		N
3.3	Wiring terminals for connection of external conductors		N
3.3.1	Wiring terminals		N
3.3.2	Connection of non-detachable power supply cords		N
3.3.3	Screw terminals		N
3.3.4	Conductor sizes to be connected		N
	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ) .....		—
3.3.5	Wiring terminal sizes		N
	Rated current (A), type, nominal thread diameter (mm) .....		—
3.3.6	Wiring terminal design		N
3.3.7	Grouping of wiring terminals		N
3.3.8	Stranded wire		N
3.4	Disconnection from the mains supply		N
3.4.1	General requirement		N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment		N
3.4.4	Parts which remain energized		N
3.4.5	Switches in flexible cords		N
3.4.6	Number of poles - single-phase and d.c. equipment		N
3.4.7	Number of poles - three-phase equipment		N
3.4.8	Switches as disconnect devices		N
3.4.9	Plugs as disconnect devices		N
3.4.10	Interconnected equipment		N
3.4.11	Multiple power sources		N
3.5	Interconnection of equipment		P
3.5.1	General requirements		P
3.5.2	Types of interconnection circuits .....		P
3.5.3	ELV circuits as interconnection circuits		P
3.5.4	Data ports for additional equipment	No such data ports	N
4	PHYSICAL REQUIREMENTS		P

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Clause	Requirement + Test	Result - Remark	Verdict

4.1	Stability		N
	Angle of 10°	Equipment with mass not exceeding 7kg and nor a floor-standing	N
	Test force (N) ..... :		N

4.2	Mechanical strength		P
4.2.1	General		P
	Rack-mounted equipment.		N
4.2.2	Steady force test, 10 N		P
4.2.3	Steady force test, 30 N	No internal enclosure.	N
4.2.4	Steady force test, 250 N	Applied for top, side, bottom of base.No hazard	P
4.2.5	Impact test	The handset is a hand-held equipment and subjected to drop test,see 4.2.6	N
	Fall test		N
	Swing test		N
4.2.6	Drop test; height (mm) ..... :	1000mm dropped for three times,no hazards as a result of test	P
4.2.7	Stress relief test	No shrinkage and distortion due to 70°C/7h stress relief test	P
4.2.8	Cathode ray tubes	No Cathode ray tubes	N
	Picture tube separately certified ..... :		N
4.2.9	High pressure lamps	No high pressure lamps	N
4.2.10	Wall or ceiling mounted equipment; force (N) ..... :	50N	P
4.2.11	Rotating solid media		N
	Test to cover on the door.....:		N

4.3	Design and construction		P
4.3.1	Edges and corners	All coners are smooth and rounded	P
4.3.2	Handles and manual controls; force (N).....:		N
4.3.3	Adjustable controls		N
4.3.4	Securing of parts		N
4.3.5	Connection by plugs and sockets	IEC 60083 or IEC 60320 type connectors not used for SELV circuits.	P
4.3.6	Direct plug-in equipment	Evaluated in approved adapter	N



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Clause	Requirement + Test	Result - Remark	Verdict
	Torque .....		—
	Compliance with the relevant mains plug standard .....		N
4.3.7	Heating elements in earthed equipment	No heating elements	N
4.3.8	Batteries	Built 2*AAA 1.2Vdc 600mAh Ni-MH rechargeable battery, see appended table 1.5.1	P
	- Overcharging of a rechargeable battery	See appended table 4.3.8, overcharging for 7 hours.	P
	- Unintentional charging of a non-rechargeable battery	without electrical connection on battery compartment of Base	N
	- Reverse charging of a rechargeable battery	See appended table 4.3.8	P
	- Excessive discharging rate for any battery	See appended table 4.3.8	P
4.3.9	Oil and grease	No oil and grease	N
4.3.10	Dust, powders, liquids and gases		N
4.3.11	Containers for liquids or gases		N
4.3.12	Flammable liquids .....		N
	Quantity of liquid (l) .....		N
	Flash point (°C) .....		N
4.3.13	Radiation		P
4.3.13.1	General		P
4.3.13.2	Ionizing radiation		N
	Measured radiation(pA/kg) .....		—
	Measured high-voltage (kV) .....		—
	Measured focus voltage (kV).....		—
	CRT markings .....		—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N
	Part, property, retention after test, flammability classification .....		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation .....		N
4.3.13.5	Lasers (including laser diodes) and LEDs		P
4.3.13.5.1	Lasers (including laser diodes)		N
	Laser class .....		—
4.3.13.5.2	Light emitting diodes (LEDs)		N
4.3.13.6	Other types .....		N
4.4	Protection against hazardous moving parts		N
4.4.1	General	No moving parts	N

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Clause	Requirement + Test	Result - Remark	Verdict
4.4.2	Protection in operator access areas .....		N
	Household and home/office document/media shredders		N
4.4.3	Protection in restricted access locations .....		N
4.4.4	Protection in service access areas		N
4.4.5	Protection against moving fan blades		N
4.4.5.1	General		N
	Not considered to cause pain or injury. a).....:		N
	Is considered to cause pain, not injury. b) .....		N
	Considered to cause injury. c) .....		N
4.4.5.2	Protection for users		N
	Use of symbol or warning .....		N
4.4.5.3	Protection for service persons		N
4.5	Thermal requirements		P
4.5.1	General		P
4.5.2	Temperature tests		P
	Normal load condition per Annex L .....		—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat .....		N
4.6	Openings in enclosures		P
4.6.1	Top and side openings	No openings	N
	Dimensions (mm) .....		—
4.6.2	Bottoms of fire enclosures	Bare parts of TNV CIRCUITS, cannot be touched by the test probe	P
	Construction of the bottommm, dimensions (mm) . :		—
4.6.3	Doors or covers in fire enclosures		N
4.6.4	Openings in transportable equipment		N
4.6.4.1	Constructional design measures		N
	Dimensions (mm) .....		—
4.6.4.2	Evaluation measures for larger openings		N
4.6.4.3	Use of metallized parts		N
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C), time (weeks)..... :		—

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Clause	Requirement + Test	Result - Remark	Verdict
4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame	Method 1 used. See below.	P
	Method 1, selection and application of components wiring and materials	Materials with the required flammability classes are used- see appended table 1.5.1 and 4.7	P
	Method 2, application of all of simulated fault condition tests	Method 2 is not used for the evaluation of the fire hazard.	N
4.7.2	Conditions for a fire enclosure	All the components mounted on rated V-0 PCB and supplied by an approved adapter with LPS. Also see table 5.3 for battery test, no fire enclosure necessary.	N
4.7.2.1	Parts requiring a fire enclosure	See as above	N
4.7.2.2	Parts not requiring a fire enclosure	See as above	P
4.7.3	Materials		P
4.7.3.1	General	PCB rated V-0 and enclosure rated min. HB	P
4.7.3.2	Materials for fire enclosures		N
4.7.3.3	Materials for components and other parts outside fire enclosures		N
4.7.3.4	Materials for components and other parts inside fire enclosures		N
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high-voltage components	N
5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		P
5.1	Touch current and protective conductor current		N
5.1.1	General	Part of power supply certification.	N
5.1.2	Configuration of equipment under test (EUT)		N
5.1.2.1	Single connection to an a.c. mains supply		N
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N
5.1.3	Test circuit		N
5.1.4	Application of measuring instrument		N
5.1.5	Test procedure		N
5.1.6	Test measurements		N
	Supply voltage (V) .....		—
	Measured touch current (mA) .....		—

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Clause	Requirement + Test	Result - Remark	Verdict
	Max. allowed touch current (mA) .....		—
	Measured protective conductor current (mA) .....		—
	Max. allowed protective conductor current (mA)....		—
5.1.7	Equipment with touch current exceeding 3,5mA		N
5.1.7.1	General .....		N
5.1.7.2	Simultaneous multiple connections to the supply		N
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	Class III equipment with an approved adapter.	N
	Supply voltage (V) .....		—
	Measured touch current (mA) .....		—
	Max. allowed touch current (mA) .....		—
5.1.8.2	Summation of touch currents from telecommunication networks		P
	a) EUT with earthed telecommunication ports .....		N
	b) EUT whose telecommunication ports have no reference to protective earth		P
5.2	Electric strength		P
5.2.1	General		P
5.2.2	Test procedure		P
5.3	Abnormal operating and fault conditions		P
5.3.1	Protection against overload and abnormal operation	Considered	P
5.3.2	Motors		N
5.3.3	Transformers	No transformers	N
5.3.4	Functional insulation.....	By short circuit test,see appended table 5.3.	P
5.3.5	Electromechanical components	No Electromechanical components except speaker.	N
5.3.6	Audio amplifiers in ITE .....	No audio amplifiers	N
5.3.7	Simulation of faults	(see appended table 5.3)	P
5.3.8	Unattended equipment	No thermostat,temperature limiter or thermal cut-out.	N
5.3.9	Compliance criteria for abnormal operating and fault conditions	Complied.	P
5.3.9.1	During the tests		P

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Clause	Requirement + Test	Result - Remark	Verdict
5.3.9.2	After the tests		P
6	CONNECTION TO TELECOMMUNICATION NETWORKS		P
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		P
6.1.1	Protection from hazardous voltages		P
6.1.2	Separation of the telecommunication network from earth		N
6.1.2.1	Requirements		N
	Supply voltage (V) .....		—
	Current in the test circuit (mA) .....		—
6.1.2.2	Exclusions .....		N
6.2	Protection of equipment users from overvoltages on telecommunication networks		P
6.2.1	Separation requirements	Electrical separation provided between TNV-3 circuit and accessible parts and circuits.	P
6.2.2	Electric strength test procedure		P
6.2.2.1	Impulse test		N
6.2.2.2	Steady-state test	(see appended table 5.2)	P
6.2.2.3	Compliance criteria	No breakdown of insulation.	P
6.3	Protection of the telecommunication wiring system from overheating		N
	Max. output current (A) .....		—
	Current limiting method .....		—
7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N
7.1	General		N
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N
7.3	Protection of equipment users from overvoltages on the cable distribution system		N
7.4	Insulation between primary circuits and cable distribution systems		N
7.4.1	General		N
7.4.2	Voltage surge test		N
7.4.3	Impulse test		N
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N

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Clause	Requirement + Test	Result - Remark	Verdict
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N
A.1.1	Samples..... :		—
	Wall thickness (mm) ..... :		—
A.1.2	Conditioning of samples; temperature (°C) ..... :		N
A.1.3	Mounting of samples ..... :		N
A.1.4	Test flame (see IEC 60695-11-3)		N
	Flame A, B, C or D ..... :		—
A.1.5	Test procedure		N
A.1.6	Compliance criteria		N
	Sample 1 burning time (s) ..... :		—
	Sample 2 burning time (s) ..... :		—
	Sample 3 burning time (s) ..... :		—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N
A.2.1	Samples, material..... :		—
	Wall thickness (mm) ..... :		—
A.2.2	Conditioning of samples; temperature (°C) ..... :		N
A.2.3	Mounting of samples ..... :		N
A.2.4	Test flame (see IEC 60695-11-4)		N
	Flame A, B or C ..... :		—
A.2.5	Test procedure		N
A.2.6	Compliance criteria		N
	Sample 1 burning time (s) ..... :		—
	Sample 2 burning time (s) ..... :		—
	Sample 3 burning time (s) ..... :		—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N
	Sample 1 burning time (s) ..... :		—
	Sample 2 burning time (s) ..... :		—
	Sample 3 burning time (s) ..... :		—
A.3	Hot flaming oil test (see 4.6.2)		N
A.3.1	Mounting of samples		N
A.3.2	Test procedure		N
A.3.3	Compliance criterion		N
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N

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Clause	Requirement + Test	Result - Remark	Verdict
B.1	General requirements		N
	Position .....		—
	Manufacturer .....		—
	Type .....		—
	Rated values .....		—
B.2	Test conditions		N
B.3	Maximum temperatures		N
B.4	Running overload test		N
B.5	Locked-rotor overload test		N
	Test duration (days) .....		—
	Electric strength test: test voltage (V) .....		—
B.6	Running overload test for d.c. motors in secondary circuits		N
B.6.1	General		N
B.6.2	Test procedure		N
B.6.3	Alternative test procedure		N
B.6.4	Electric strength test; test voltage (V) .....		N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N
B.7.1	General		N
B.7.2	Test procedure		N
B.7.3	Alternative test procedure		N
B.7.4	Electric strength test; test voltage (V) .....		N
B.8	Test for motors with capacitors		N
B.9	Test for three-phase motors		N
B.10	Test for series motors		N
	Operating voltage (V) .....		—
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
	Position .....		—
	Manufacturer .....		—
	Type .....		—
	Rated values .....		—
	Method of protection .....		—
C.1	Overload test		N
C.2	Insulation		N
	Protection from displacement of windings .....		N

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Clause	Requirement + Test	Result - Remark	Verdict
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		N
D.1	Measuring instrument		N
D.2	Alternative measuring instrument		N
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		P
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N
G.1	Clearances		N
G.1.1	General		N
G.1.2	Summary of the procedure for determining minimum clearances		N
G.2	Determination of mains transient voltage (V)		N
G.2.1	AC mains supply .....		N
G.2.2	Earthed d.c. mains supplies .....		N
G.2.3	Unearthed d.c. mains supplies .....		N
G.2.4	Battery operation .....		N
G.3	Determination of telecommunication network transient voltage (V) .....		N
G.4	Determination of required withstand voltage (V)		N
G.4.1	Mains transients and internal repetitive peaks .....		N
G.4.2	Transients from telecommunication networks .....		N
G.4.3	Combination of transients		N
G.4.4	Transients from cable distribution systems		N
G.5	Measurement of transient voltages (V)		N
	a) Transients from a mains supply		N
	For an a.c. mains supply		N
	For a d.c. mains supply		N
	b) Transients from a telecommunication network		N
G.6	Determination of minimum clearances .....		N
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N
	Metal(s) used .....		—



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Clause	Requirement + Test	Result - Remark	Verdict
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N
K.1	Making and breaking capacity		N
K.2	Thermostat reliability; operating voltage (V) ..... :		N
K.3	Thermostat endurance test; operating voltage (V):		N
K.4	Temperature limiter endurance; operating voltage (V) ..... :		N
K.5	Thermal cut-out reliability		N
K.6	Stability of operation		N
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		P
L.1	Typewriters		N
L.2	Adding machines and cash registers		N
L.3	Erasers		N
L.4	Pencil sharpeners		N
L.5	Duplicators and copy machines		N
L.6	Motor-operated files		N
L.7	Other business equipment	DECT TELEPHONE	P
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N
M.1	Introduction		N
M.2	Method A		N
M.3	Method B		N
M.3.1	Ringing signal		N
M.3.1.1	Frequency (Hz) ..... :		—
M.3.1.2	Voltage (V) ..... :		—
M.3.1.3	Cadence; time (s), voltage (V) ..... :		—
M.3.1.4	Single fault current (mA) ..... :		—
M.3.2	Tripping device and monitoring voltage ..... :		N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N
M.3.2.2	Tripping device		N
M.3.2.3	Monitoring voltage (V) ..... :		N
N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)		N
N.1	ITU-T impulse test generators		N
N.2	IEC 60065 impulse test generator		N

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Clause	Requirement + Test	Result - Remark	Verdict
P	ANNEX P, NORMATIVE REFERENCES		—
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		N
	a) Preferred climatic categories .....		N
	b) Maximum continuous voltage .....		N
	c) Pulse current .....		N
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N
R.2	Reduced clearances (see 2.10.3)		N
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N
S.1	Test equipment		N
S.2	Test procedure		N
S.3	Examples of waveforms during impulse testing		N
T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N
			—
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N
			—
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		N
V.1	Introduction		N
V.2	TN power distribution systems		N
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N
W.1	Touch current from electronic circuits		N
W.1.1	Floating circuits		N
W.1.2	Earthed circuits		N
W.2	Interconnection of several equipments		N
W.2.1	Isolation		N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective earth		N
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N

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Clause	Requirement + Test	Result - Remark	Verdict
X.1	Determination of maximum input current		N
X.2	Overload test procedure		N
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N
Y.1	Test apparatus .....		N
Y.2	Mounting of test samples .....		N
Y.3	Carbon-arc light-exposure apparatus .....		N
Y.4	Xenon-arc light exposure apparatus .....		N
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		N
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N
BB	ANNEX BB, CHANGES IN THE SECOND EDITION		—
CC	Annex CC, Evaluation of integrated circuit (IC) current limiters		N
CC.1	General		N
CC.2	Test program 1 .....		—
CC.3	Test program 2 .....		—
DD	Annex DD, Requirements for the mounting means of rack-mounted equipment		N
DD.1	General		N
DD.2	Mechanical strength test, variable N.....:		—
DD.3	Mechanical strength test, 250N, including end stops.....:		—
DD.4	Compliance.....:		N
EE	Annex EE, Household and home/office document/media shredders		N
EE.1	General		N
EE.2	Markings and instructions		N
	Use of markings or symbols.....:		N
	Information of user instructions, maintenance and/or servicing instructions.....:		N
EE.3	Inadvertent reactivation test		N
EE.4	Disconnection of power to hazardous moving parts:		N
	Use of markings or symbols		N
EE.5	Protection against hazardous moving parts		N
	Test with test finger (Figure 2A)		—

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Clause	Requirement + Test	Result - Remark	Verdict
	Test with wedge probe (Figure EE1 and EE2) .....		—

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Clause	Requirement + Test	Result - Remark	Verdict

EN 60950-1:2006+A11:2009+A1:2010 – COMMON MODIFICATIONS			
Contents	Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions Annex ZC (informative) A-deviations		P
General	Delete all the “country” notes in the reference document according to the following list: 1.4.8 Note 2      1.5.1 Note 2 & 3      1.5.7.1 Note 1.5.8 Note 2      1.5.9.4 Note      1.7.2.1 Note 4, 5 & 6 2.2.3 Note      2.2.4 Note      2.3.2 Note 2.3.2.1 Note 2      2.3.4 Note 2      2.6.3.3 Note 2 & 3 2.7.1 Note      2.10.3.2 Note 2      2.10.5.13 Note 3 3.2.1.1 Note      3.2.4 Note 3.      2.5.1 Note 2 4.3.6 Note 1 & 2      4.7 Note 4      4.7.2.2 Note 4.7.3.1 Note 2      5.1.7.1 Note 3 & 4      5.3.7 Note 1 6 Note 2 & 5      6.1.2.1 Note 2      6.1.2.2 Note 6.2.2 Note 6.      2.2.1 Note 2      6.2.2.2 Note 7.1 Note 3      7.2 Note      7.3 Note 1 & 2 G.2.1 Note 2      Annex H Note 2		P
General (A1:2010)	Delete all the “country” notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list: 1.5.7.1 Note      6.1.2.1 Note 2 6.2.2.1 Note 2      EE.3 Note		P
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for “one package equipment”, and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.		N
1.5.1	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC		N
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.		N

EN 60950-1:2006+A11:2009+A1:2010															
Clause	Requirement + Test	Result - Remark	Verdict												
2.7.1	<p>Replace the subclause as follows:</p> <p>Basic requirements</p> <p>To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):</p> <p>a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;</p> <p>b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;</p> <p>c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.</p> <p>If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.</p>		N												
2.7.2	This subclause has been declared 'void'.		N												
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N												
3.2.5.1	<p>Replace "60245 IEC 53" by "H05 RR-F";</p> <p>"60227 IEC 52" by "H03 VV-F or H03 VVH2-F";</p> <p>"60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".</p> <p>In Table 3B, replace the first four lines by the following:</p> <table><tr><td>Up to and including 6</td><td></td><td>0,75<sup>a)</sup></td><td></td></tr><tr><td>Over 6 up to and including 10</td><td>(0,75)<sup>b)</sup></td><td></td><td>1,0</td></tr><tr><td>Over 10 up to and including 16</td><td>(1,0)<sup>c)</sup></td><td>1,5</td><td></td></tr></table> <p>In the conditions applicable to Table 3B delete the words "in some countries" in condition<sup>a)</sup>.</p> <p>In NOTE 1, applicable to Table 3B, delete the second sentence.</p>	Up to and including 6		0,75 <sup>a)</sup>		Over 6 up to and including 10	(0,75) <sup>b)</sup>		1,0	Over 10 up to and including 16	(1,0) <sup>c)</sup>	1,5			N
Up to and including 6		0,75 <sup>a)</sup>													
Over 6 up to and including 10	(0,75) <sup>b)</sup>		1,0												
Over 10 up to and including 16	(1,0) <sup>c)</sup>	1,5													
3.3.4	<p>In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:</p> <table><tr><td>Over 10 up to and including 16</td><td>1,5 to 2,5</td><td>1,5 to 4</td></tr></table> <p>Delete the fifth line: conductor sizes for 13 to 16 A.</p>	Over 10 up to and including 16	1,5 to 2,5	1,5 to 4		N									
Over 10 up to and including 16	1,5 to 2,5	1,5 to 4													
4.3.13.6 (A1:2010)	<p>Replace the existing NOTE by the following:</p> <p>NOTE Z1 Attention is drawn to:</p> <p>1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and</p> <p>2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation).</p>		N												

EN 60950-1:2006+A11:2009+A1:2010			
Clause	Requirement + Test	Result - Remark	Verdict
Annex H	<p>Replace the last paragraph of this annex by:</p> <p>At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 <math>\mu</math>Sv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.</p> <p>Replace the notes as follows:</p> <p>NOTE These values appear in Directive 96/29/Euratom.</p> <p>Delete NOTE 2.</p>		N
Biblio-graphy	Additional EN standards.		—
ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
ZB	SPECIAL NATIONAL CONDITIONS		N
1.2.4.1	In <b>Denmark</b> , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N
1.2.13.14	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1 and 7.3 of this annex		N
1.5.7.1	In <b>Finland, Norway</b> and <b>Sweden</b> , resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2..		N
1.5.8	In <b>Norway</b> , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N
1.5.9.4	In <b>Finland, Norway</b> and <b>Sweden</b> , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N





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Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.1	<p>In <b>Norway</b> and <b>Sweden</b>, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:</p> <p>“Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing –and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11).</p> <p>”Translation to Norwegian (the Swedish text will also be accepted in Norway):</p> <p>“Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet.”</p> <p>Translation to Swedish:</p> <p>”Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet.”</p>		N
1.7.5	<p>In <b>Denmark</b>, socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.</p> <p>For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.</p>		N
2.2.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N
2.3.2	In <b>Finland, Norway</b> and <b>Sweden</b> there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.		N
2.3.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N
2.6.3.3	In the <b>United Kingdom</b> , the current rating of the circuit shall be taken as 13 A, not 16 A.		N
2.7.1	In the <b>United Kingdom</b> , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.		N
2.10.5.13	In <b>Finland, Norway</b> and <b>Sweden</b> , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N



EN 60950-1:2006+A11:2009+A1:2010																											
Clause	Requirement + Test	Result - Remark	Verdict																								
3.2.1.1	<p>In <b>Switzerland</b>, supply cords of equipment having a <b>RATED CURRENT</b> not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:</p> <table> <tr> <td>SEV 6532-2.1991</td><td>Plug Type 15</td><td>3P+N+PE</td><td>250/400 V, 10 A</td></tr> <tr> <td>SEV 6533-2.1991</td><td>Plug Type 11</td><td>L+N</td><td>250 V, 10 A</td></tr> <tr> <td>SEV 6534-2.1991</td><td>Plug Type 12</td><td>L+N+PE</td><td>250 V, 10 A</td></tr> </table> <p>In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:</p> <table> <tr> <td>SEV 5932-2.1998</td><td>Plug Type 25</td><td>3L+N+PE</td><td>230/400 V, 16 A</td></tr> <tr> <td>SEV 5933-2.1998</td><td>Plug Type 21</td><td>L+N</td><td>250 V, 16 A</td></tr> <tr> <td>SEV 5934-2.1998</td><td>Plug Type 23</td><td>L+N+PE</td><td>250 V, 16 A</td></tr> </table>	SEV 6532-2.1991	Plug Type 15	3P+N+PE	250/400 V, 10 A	SEV 6533-2.1991	Plug Type 11	L+N	250 V, 10 A	SEV 6534-2.1991	Plug Type 12	L+N+PE	250 V, 10 A	SEV 5932-2.1998	Plug Type 25	3L+N+PE	230/400 V, 16 A	SEV 5933-2.1998	Plug Type 21	L+N	250 V, 16 A	SEV 5934-2.1998	Plug Type 23	L+N+PE	250 V, 16 A		N
SEV 6532-2.1991	Plug Type 15	3P+N+PE	250/400 V, 10 A																								
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SEV 5933-2.1998	Plug Type 21	L+N	250 V, 16 A																								
SEV 5934-2.1998	Plug Type 23	L+N+PE	250 V, 16 A																								
3.2.1.1	<p>In <b>Denmark</b>, supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.</p> <p>If poly-phase equipment and single-phase equipment having a <b>RATED CURRENT</b> exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.</p>		N																								
3.2.1.1	<p>In <b>Spain</b>, supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.</p> <p>Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.</p> <p>If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.</p>		N																								
3.2.1.1	<p>In the <b>United Kingdom</b>, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.</p> <p>NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.</p>		N																								
3.2.1.1	<p>In <b>Ireland</b>, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.</p>		N																								
3.2.4	In <b>Switzerland</b> , for requirements see 3.2.1.1 of this annex.		N																								
3.2.5.1	In the <b>United Kingdom</b> , a power supply cord with conductor of 1,25 mm <sup>2</sup> is allowed for equipment with a rated current over 10 A and up to and including 13 A.		N																								

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Clause	Requirement + Test	Result - Remark	Verdict
3.3.4	In the <b>United Kingdom</b> , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> nominal cross-sectional area.		N
4.3.6	In the <b>United Kingdom</b> , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		N
4.3.6	In <b>Ireland</b> , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.		N
5.1.7.1	In <b>Finland, Norway and Sweden</b> TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that ○ is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and ○ has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and ○ is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.		N

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Clause	Requirement + Test	Result - Remark	Verdict
6.1.2.1 (A1:2010)	<p>In <b>Finland, Norway</b> and <b>Sweden</b>, add the following text between the first and second paragraph of the compliance clause:</p> <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none"> <li>- two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> <li>- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul> <p>Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none"> <li>- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and</li> <li>- is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul> <p>It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).</p> <p>It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.</p> <p>A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> <li>- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;</li> <li>- the additional testing shall be performed on all the test specimens as described in EN 60384-14;</li> <li>- the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.</li> </ul>		N
6.1.2.2	<p>In <b>Finland, Norway</b> and <b>Sweden</b>, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.</p>		N
7.2	<p>In <b>Finland, Norway</b> and <b>Sweden</b>, for requirements see 6.1.2.1 and 6.1.2.2 of this annex.</p> <p>The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.</p>		N
7.3	<p>In <b>Norway</b> and <b>Sweden</b>, there are many buildings where the screen of the coaxial cable is normally not connected to the earth in the building installation.</p> <p>In <b>Norway</b> and <b>Sweden</b>, for requirements see 1.2.13.14 and 1.7.2.1 of this annex.</p>		N
7.3	<p>In <b>Norway</b>, for installation conditions see EN 60728-11:2005.</p>		N

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Clause	Requirement + Test	Result - Remark	Verdict
ZC	A-DEVIATIONS (informative)		N
1.5.1	<b>Sweden</b> (Ordinance 1990:944) Add the following: NOTE In Sweden, switches containing mercury are not permitted.		N
1.5.1	<b>Switzerland</b> (Ordinance on environmentally hazardous substances SR 814.081, Annex 1.7, Mercury - Annex 1.7 of SR 814.81 applies for mercury.) Add the following: NOTE In Switzerland, switches containing mercury such as thermostats, relays and level controllers are not allowed.		N
1.7.2.1	<b>Denmark</b> (Heavy Current Regulations) Supply cords of CLASS I EQUIPMENT, which is delivered without a plug, must be provided with a visible tag with the following text:  Vigtigt! Lederen med grøn/gul isolation må kun tilsluttes en klemme mærket  eller   If essential for the safety of the equipment, the tag must in addition be provided with a diagram, which shows the connection of the other conductors, or be provided with the following text: "For tilslutning af de øvrige ledere, se medfølgende installationsvejledning."		N
1.7.2.1	<b>Germany</b> (Gesetz über technische Arbeitsmittel und Verbraucherprodukte (Geräte- und Produktsicherheitsgesetz – GPSG) [Law on technical labour equipment and consumer products], of 6th January 2004, Section 2, Article 4, Clause (4), Item 2). If for the assurance of safety and health certain rules during use, amending or maintenance of a technical labour equipment or readymade consumer product are to be followed, a manual in German language has to be delivered when placing the product on the market. Of this requirement, rules for use even only by SERVICE PERSONS are not exempted.		N
1.7.5	<b>Denmark</b> (Heavy Current Regulations) With the exception of CLASS II EQUIPMENT provided with a socket outlet in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-4a, CLASS II EQUIPMENT shall not be fitted with socket-outlets for providing power to other equipment.		N
1.7.13	<b>Switzerland</b> (Ordinance on chemical hazardous risk reduction SR 814.81, Annex 2.15 Batteries) Annex 2.15 of SR 814.81 applies for batteries.		N
5.1.7.1	<b>Denmark</b> (Heavy Current Regulations, Chapter 707, clause 707.4) TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for PERMANENTLY CONNECTED EQUIPMENT and PLUGGABLE EQUIPMENT TYPE B.		N

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Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity1)	
Enclosure of base	Various	Various	Min.HB, 60℃	UL94 UL 746	UL	
Enclosure of handset	Various	Various	Min.HB, 60℃	UL94 UL 746	UL	
Enclosure of charger	Various	Various	Min.HB, 60℃	UL94 UL 746	UL	
PCB	Various	Various	Min. V-0,105℃	UL796	UL	
Internal Wiring	Various	Various	Min. VW-1,80℃	UL758	UL	
adapter	XIAMEN METROTEC INDUSTRY CO.LTD	MN-A075-E099	Input: AC 100- 240V 50/60Hz 0.2A Output:DC7.5V ---500mA  See appendix C – adaptor certification	EN60950- 1:2006+A11:2009 +A1:2010+A12:20 11	Report No.: 11LA0707201 001	
Ni-MH Battery	LEXEL BATTERY(SH ENZHEN) CO.,LTD.	LH060-3AH45	SIZE AAA 1.2V 600mAh	UL2054	UL	
VARISTOR/VR1	BRIGHTKING	TPA220	VARISTOR VOLTAGE 62~270V	---	VDE	

<sup>1)</sup> An asterisk indicates a mark which assures the agreed level of surveillance

Supplementary information:

1.6.2	TABLE: Electrical data (in normal conditions)							P
Input(for adapter)			Input(for handset )			Fus e #	Ifuse (A)	Condition/status
U (V)	I (A)	Irated (A)	U (V)	I (A)	P (W)			
Normal operation 1(Operating with empty battery by charger-charging)								
90V/60Hz	0.029	0.2	7.42VDC	0.115	0.86	---	---	Max. operating condition and charging with empty battery by charger.
100V/60Hz	0.027	0.2	7.40VDC	0.117	0.87	---	---	Max. operating condition and charging with empty battery by charger.
240V/50Hz	0.019	0.2	7.41VDC	0.115	0.86	---	---	Max. operating condition and charging with empty battery by charger.
254V/50Hz	0.017	0.2	7.42VDC	0.114	0.85	---	---	Max. operating condition and charging with empty battery by charger.
Normal operation 2 (Operating with full battery only-discharging)								
---	---	---	2.4VDC	0.163	0.392--	---	---	Max. operating condition with full battery

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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements					P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	Cr (mm)
Base PWB to accessible part	120	120	1.0	4.5	1.5	5.6

Supplementary information:

2.10.5	TABLE: Distance through insulation measurements					N
Distance through insulation (DTI) at/of:		U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)

Supplementary information:

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Clause	Requirement + Test					Result - Remark			Verdict
4.3.8	TABLE: Batteries								P
The tests of 4.3.8 are applicable only when appropriate battery data is not available						---			P
Is it possible to install the battery in a reverse polarity position?						No			P
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging mA		Discharging mA		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	---	---	---	117	600	163	1200	---	---
Max. current during fault condition	---	---	---	250	600	172	1200	---	---
Max. current during overcharging 7 hours fault condition	---	---	---	250→0	600	---	---	---	---
Test results:									Verdict
- Chemical leaks						No			P
- Explosion of the battery						No			P
- Emission of flame or expulsion of molten metal						No			P
- Electric strength tests of equipment after completion of tests						Not applied			N
Supplementary information:									



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Clause	Requirement + Test				Result - Remark		Verdict
4.5	TABLE: Thermal requirements						P
	Supply voltage (V) .....			254.4VAC		—	
	Ambient T <sub>min</sub> (°C) .....			23.6		—	
	Ambient T <sub>max</sub> (°C) .....			26.5			
Maximum measured temperature T of part/at::				T (°C)		Allowed T <sub>max</sub> (°C)	
Ambient				26.4		---	
Normal operation 1(base operating with maximum condition )							
Base PCB				29.5		105	
LCD panel of base				27.8		80	
base key				27.8		75	
Internal wire of base				28.3		80	
Base connector				28.8		80	
Normal operation 1(handset operating with empty battery by charger-charging)							
C13 capacitor				35.6		105	
C223 capacitor				33.5		105	
Handset PCB				36.7		105	
Handset enclosure				28.1		80	
Handset key				28.1		75	
Internal wire of handset				34.2		80	
Handset connector				30.6		80	
Charger connector				30.8		80	
charger enclosure				28.9		80	
Charger PCB				52.2		105	
Internal wire of charger				30.8		80	
Battery surface				30.6		45	
Temperature T of winding:		t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)
Supplementary information:							

4.5.5	TABLE: Ball pressure test of thermoplastic parts			N
	Allowed impression diameter (mm) .....	≤2mm		—
Part		Test temperature (°C)	Impression diameter (mm)	



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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

4.7	TABLE: Resistance to fire					P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
-	-	-	-	-	-	
Supplementary information: See appendix 1.5.1						

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests				P
Test voltage applied between:			Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes/No
TNV-3 port and enclosure of base			AC	1000Vac	No
TNV-3 port and enclosure of handset			AC	1500Vac	No
Supplementary information:					

5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C).....:		26.8			—
	Power source for EUT: Manufacturer, model/type, output rating .....		See appended 1.5.1			—
Component No.	Fault	voltage (VDC) for battery	Test time	Fuse #	Fuse current (mA)	Observation
Fault condition 1(handset operating with empty battery by charger-charging)						
Speaker of handset	Short-circuit	7.40	1h 45mins	---	---	NCD,NFG,NHT
Q6 c-e of handset	Short-circuit	7.59	7 hrs	---	---	Max. charge current is 77mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
Q6 b-e of handset	Short-circuit	7.40	7 hrs	---	---	Max. charge current is 116mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
Q6 b-c of handset	Short-circuit	7.40	7 hrs	---	---	Max. charge current is 116mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
Q3 c-e of handset	Short-circuit	7.58	7 hrs	---	---	Max. charge current is 76mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
Q3 b-e of handset	Short-circuit	7.40	7 hrs	---	---	Max. charge current is 116mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
Q3 b-c of handset	Short-circuit	7.51	7 hrs	---	---	Max. charge current is 104mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
R45 of handset	Short-circuit	7.31	7 hrs	---	---	Max. charge current is 138mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT

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Clause	Requirement + Test				Result - Remark	
R52 of handset	Short-circuit	7.31	7 hrs	---	---	Max. Charge current is 135mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
R4 of handset	Short-circuit	2.4	1 hrs	---	---	Max. Charge current is 0mA, handset turn off charging. NCD, NFG, NHT
D16 of handset	Short-circuit	7.31	7 hrs	---	---	Max. Charge current is 135mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
Z1 of handset	Short-circuit	7.49	7 hrs	---	---	Max. charge current is 107mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
C46 of handset	Short-circuit	7.40	7 hrs	---	---	Max. charge current is 116mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
R1 of charger	Short-circuit	3.42	7 hrs	---	---	Max. charge current is 250mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
D1 of charger	Short-circuit	7.33	7 hrs	---	---	Max. Charge current is 131mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
Output of charger	Short-circuit	7.32	7 hrs	---	---	Max. charge current is 137mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT
Fault condition 2 (handset operating with full battery only-discharging )						
Speaker of handset	Short-circuit	7.42	1h 45mins	---	---	NCD, NFG, NHT
D16 of handset	Short-circuit	7.42	7 hrs	---	---	Max. discharge current is 172mA, untill battery cease discharged , handset turn off. NCD, NFG, NHT
Z1 of handset	Short-circuit	7.42	7 hrs	---	---	Max. discharge current is 163mA, untill battery cease discharged , handset turn off. NCD, NFG, NHT
C40 of handset	Short-circuit	7.42	7 hrs	---	---	Max. discharge current is 163mA, untill battery cease discharged , handset turn off. NCD, NFG, NHT
R22 of handset	Short-circuit	7.42	7 hrs	---	---	Max. discharge current is 172mA, untill battery cease discharged , handset turn off. NCD, NFG, NHT
R21 of handset	Short-circuit	7.42	7 hrs	---	---	Max. discharge current is 172mA, untill battery cease discharged , handset turn off. NCD, NFG, NHT
C48 of handset	Short-circuit	7.42	7 hrs	---	---	Max. discharge current is 172mA, untill battery cease discharged , handset turn off. NCD, NFG, NHT
Fault condition 3 (Operating with full battery by charger-charging)						
Batteries of handset	Short circuit	0	10mins	---	---	Max. short circuit current is 4.2A, dropped to 0A after 60s. NCD, NFG, NHT
Batteries of handset	Over charge	3.42	7 hrs	---	---	Max. charge current is 250mA, untill battery charged fully, handset turn off charging. NCD, NFG, NHT

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Clause	Requirement + Test	Result - Remark	Verdict

Batteries of handset	Reverse charge	-	7 hrs	---	---	Charging with fully charged battery and continued for 7h, NCD, NFG,NHT
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Fault condition 4 for base

Speaker of base	Short-circuit	---	2 hrs	---	---	NCD,NFG,NHT
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Supplementary information:

Abbreviation "S-C,NCD,NHT,NFG" stand for short circuit, NOT COMPONENT DAMAGE,NO HIGH TEMPERATURE AND NO FIRE GENERATION".

A. 6.5	Table: flammability test for classifying material V-0,V-1or V-2	N
--------	---	---

sample No./ref.	afterflame time (s) $t_1$ or $t_2$	Afterflame +afterglow (s) after 2nd flame application $t_2+t_3$

Supplementary information:

A.6.6	Table: flammability re-test for classifying material V-0,V-1or V-2	N
-------	--	---

sample No./ref.	afterflame time (s) $t_1$ or $t_2$	Afterflame +afterglow (s) after 2nd flame application $t_2+t_3$

Supplementary information:

A.7.4 A.7.5 A.7.6 and A.7.7	Table: flammability test for classifying foam material HF-0,HF1or HBF	N
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sample No./ref.	flame time (s)	glow time (s)	flaming /glowing distance from the end (mm)	comment

Supplementary information:

A.7.8	Table: flammability re-test for classifying foam material HF-0,HF-1	N
-------	---	---

sample No.	flame time (s)	glow time (s)	flaming /glowing distance from the end (mm)	comment

Supplementary information:

A.7.9	Table: flammability re-test for classifying foam material HBF	N
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sample No.	flame time (s)	glow time (s)	flaming /glowing distance from the end (mm)	comment

Supplementary information:

A. 8.5	Table: flammability test for classifying materials HB	N
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Clause	Requirement + Test	Result - Remark	Verdict

sample No..	flaming/glowing rate mm/min	flaming/glowing distance from reference mark (mm)
Supplementary information:		

A.9.6	Table: flammability test for classifying material 5V				N
sample	test bars		test plaques		
No.	flaming+glowing time (s)	burning distance (mm)	position	flaming +glowing time (s)	burning distance (mm)
Supplementary information:					



## Appendix A EUT PHOTOS

### A.1 EUT-Whole view



### A.2 EUT- Top view of Base



### A.3 EUT- Bottom view of Base





**A.4 EUT- Top view of handset**



**A.5 EUT- Bottom View of handset unit**





**A.6 EUT- Top view of Charger**



**A.7 EUT- Bottom View of Charger**





**A.8 EUT- view of Adapters**



**A.9 EUT- view of Line cord**



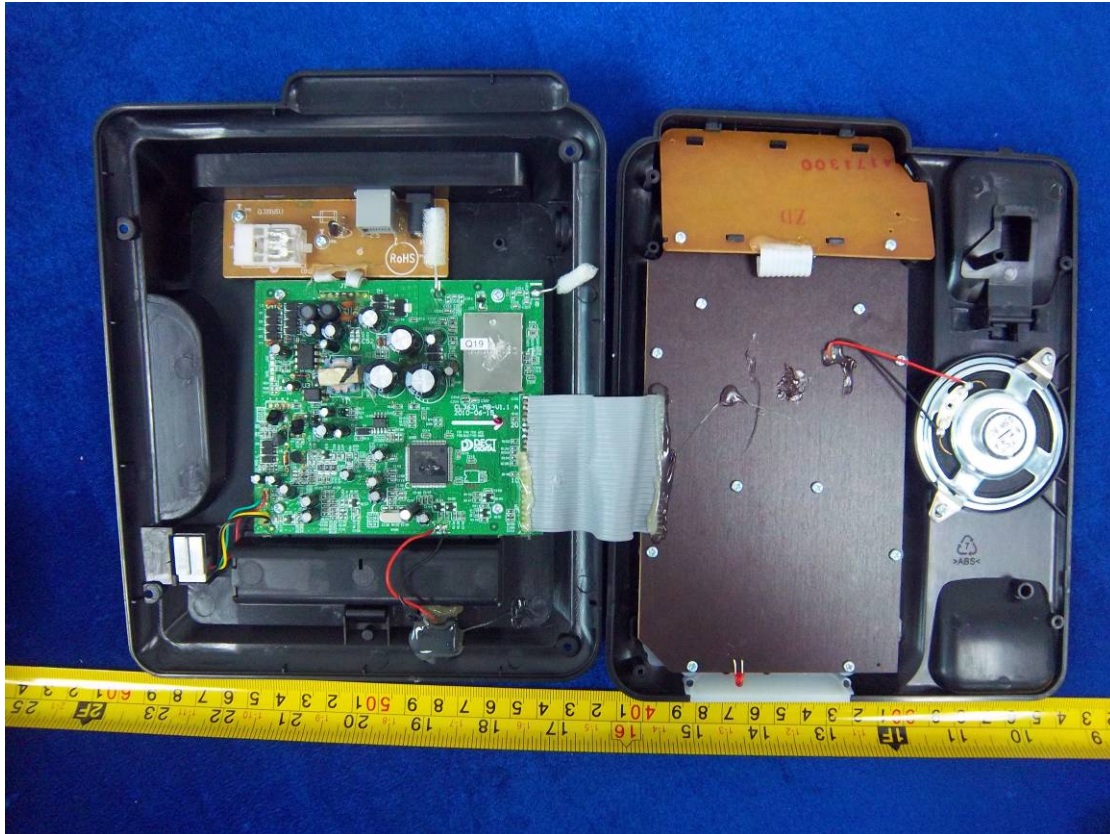


**A.10 EUT- view of 2 AAA Ni-MH 2 Adapters batteries**

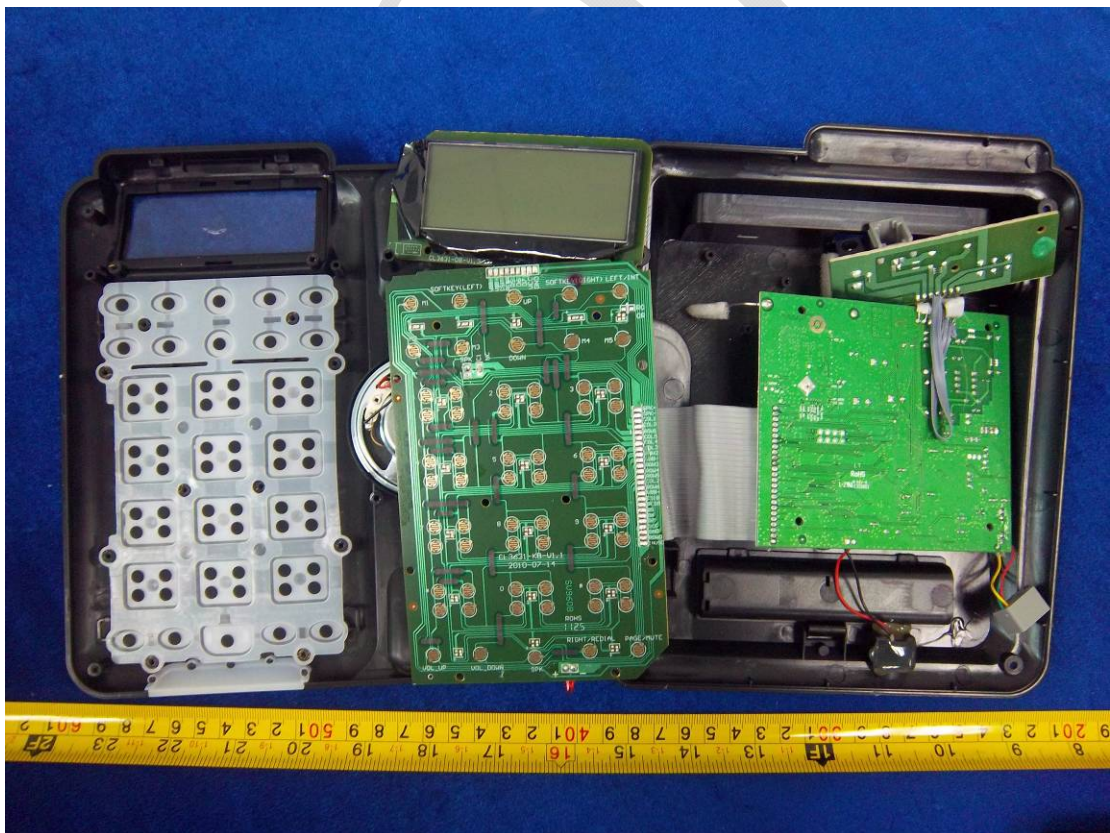


**A.11 EUT- TOP View of PCB of base unit**



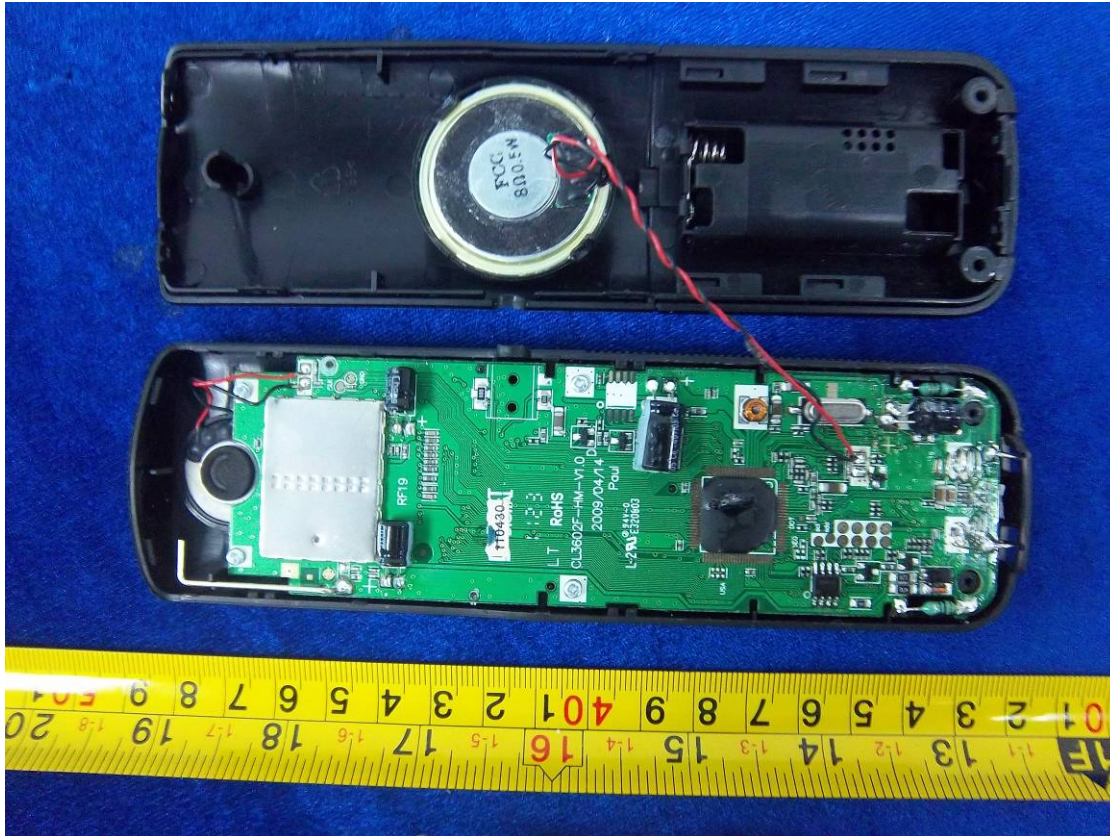


A.12 EUT-Bottom View of PCB of base unit

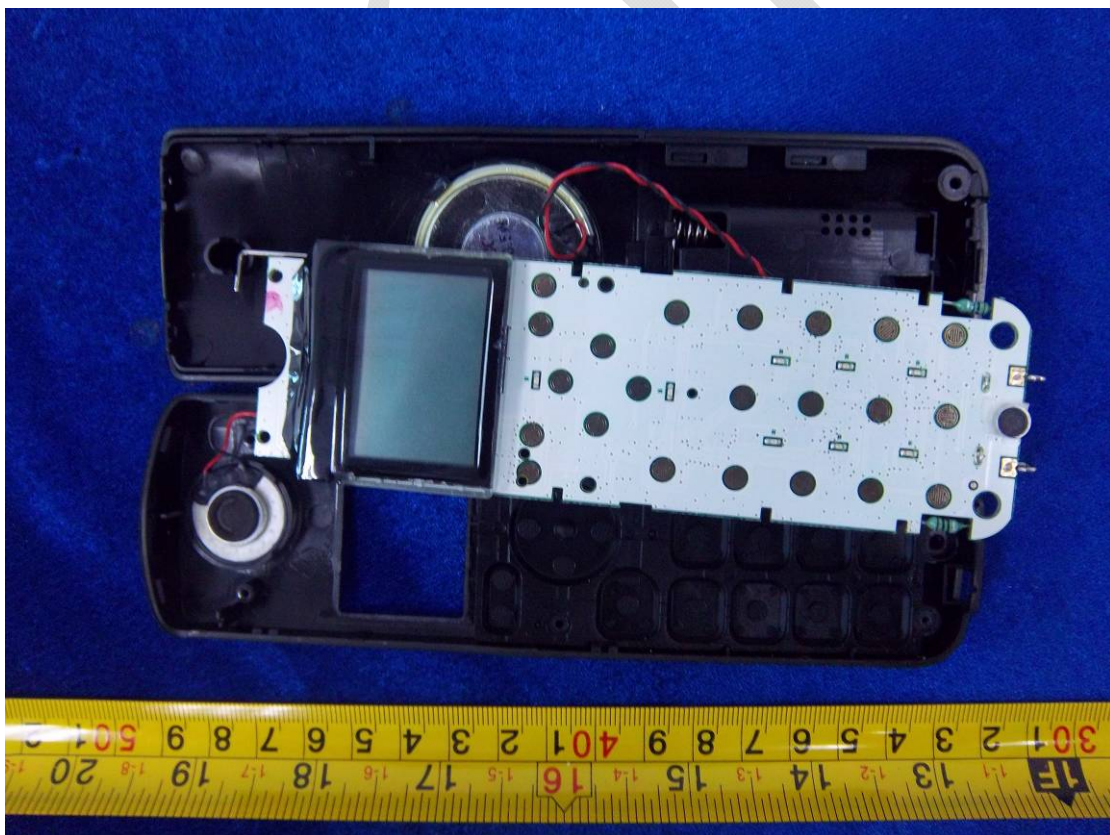


A.13 EUT- TOP View of PCB of handset unit



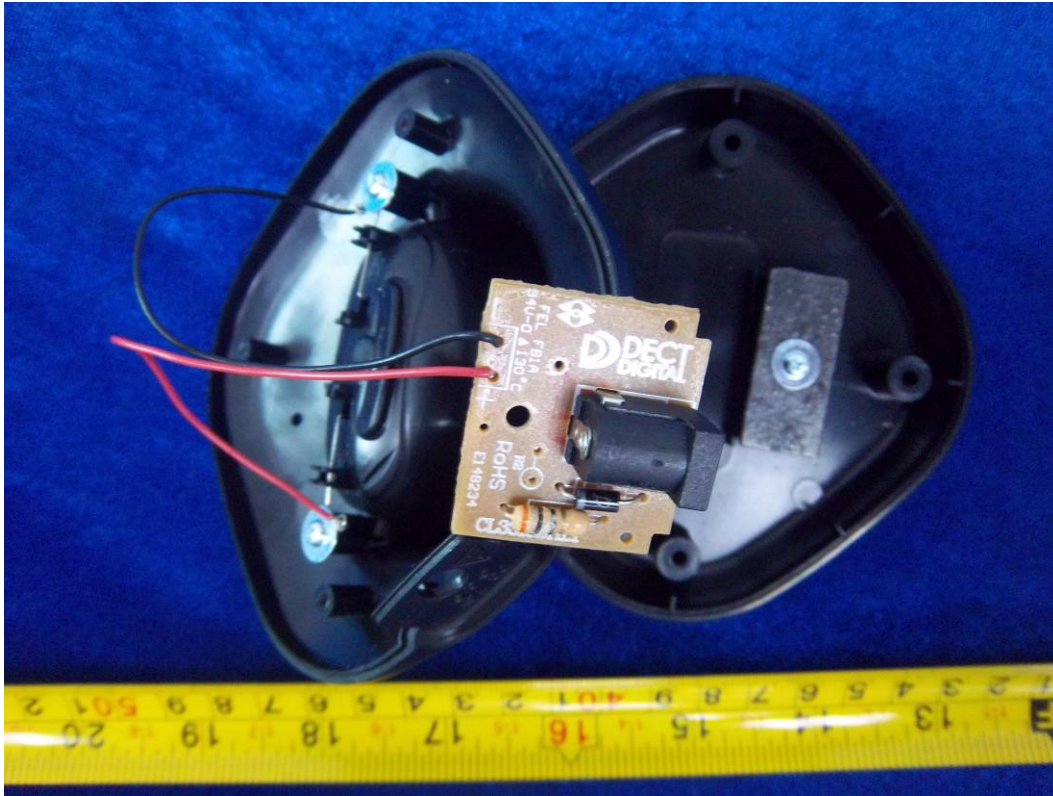


A.14 EUT- Bottom View of PCB of handset unit

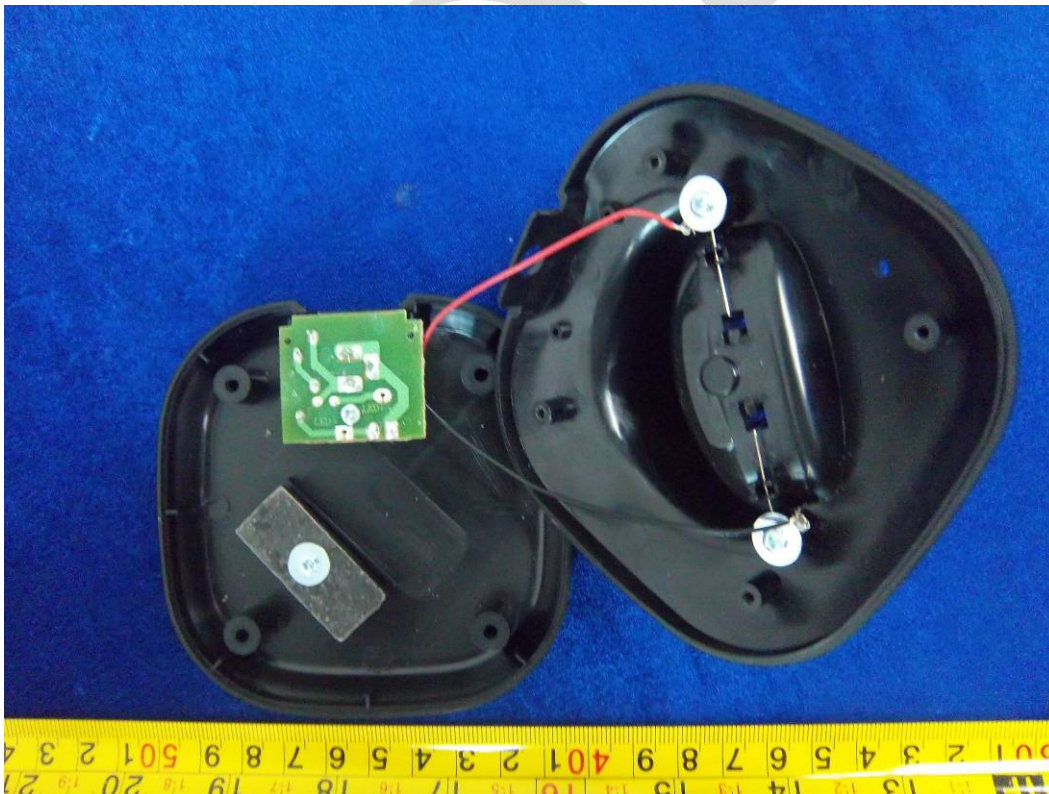


A.15 EUT- TOP View of PCB of Charger





A.16 EUT- Bottom View of PCB of Charger



## APPENDIX B – USER’S MANUAL

COPY

**APPENDIX B – USER’S MANUAL  
APPENDIX C- EUT SCHEMATICS DIAGRAM  
& PCB LAYOUT DIAGRAM  
& ADAPTER TEST REPORT**

COPY

APPENDIX D -TEST EQUIPMENTS LIST

COPY